1. Introduction

- Briefly introduce the concept of Speaker Diarization.

- State the purpose of the presentation: comparing solutions from audio-based and NLP-based approaches.

2. Audio-Based Speaker Diarization Solutions

- Present a list of open-source and third-party solutions for audio-based speaker diarization.

- Highlight their key features, such as algorithms used, ease of integration, and relevant application areas.

- Provide an overview of their pros and cons.

3. NLP-Based Speaker Diarization Solutions

- List NLP-based solutions for speaker diarization.

- Explain their methodology, linguistic features, and any notable advantages or drawbacks.

- Discuss how they handle challenges like accents and languages.

4. Comparative Analysis

- Compare the audio-based and NLP-based solutions based on key parameters:

- Accuracy and precision in identifying speakers.

- Scalability to a 100,000-minute data volume.

- Real-time processing capabilities.

- Cost considerations.

5. Projections

- Estimate the projected accuracy of each solution when applied to 100,000 minutes of data.

- Calculate potential costs for implementing and maintaining each solution at this scale.

- Discuss any limitations and assumptions made in these projections.

6. Conclusion

- Summarize the findings and implications of the comparative analysis.

- Offer recommendations for choosing the most suitable solution based on specific use cases.

Research Paper Structure:

1. Title and Abstract

- A clear, concise title.

- A brief abstract summarizing the paper's key points.

2. Introduction

- Provide an in-depth introduction to Speaker Diarization and its significance.

- Highlight the research objectives and the structure of the paper.

3. Literature Review

- Review the existing literature on Speaker Diarization in both audio-based and NLP-based contexts.

- Discuss notable works, methodologies, and their achievements and limitations.

4. Audio-Based Speaker Diarization Solutions

- Present detailed information on various audio-based solutions.

- Analyze their performance, scalability, and costs.

- Include references to relevant studies or documentation.

5. NLP-Based Speaker Diarization Solutions

- Elaborate on NLP-based solutions, their algorithms, and unique features.

- Discuss their advantages and challenges.

- Cite relevant research in this area.

6. Comparative Analysis

- Provide a comprehensive comparative analysis between audio-based and NLP-based approaches.

- Discuss their strengths and weaknesses in different scenarios.

7. Projections and Cost Analysis

- Include detailed projections for the accuracy of the chosen solutions over a 100,000-minute data volume.

- Provide cost estimates and discuss the economic implications.

8. Discussion

- Discuss the practical implications of the findings.

- Offer insights into the real-world applicability of these solutions.

9. Conclusion

- Summarize the key findings and recommendations.

- Suggest future directions for research and development in Speaker Diarization.

10. References

- Cite all sources, studies, and documentation used in the paper.

This outline should provide a framework for your comparative presentation and research paper. To complete these tasks, you will need to research and gather information on specific solutions, their features, and their projected accuracy and costs. The accuracy and cost projections might require mathematical modeling and statistical analysis based on the available data.